CLAIMS

What is claimed is:

5   1.   A software system, comprising:
    latch layer having a latch object for each of a
set of control points of a hardware system, each
latch object providing a common interface in the
software system for accessing the corresponding
10   control point;
    hardware control layer having a hardware control
object for each of a set of sub-portions of the
hardware system, each hardware control object for
coordinating accesses to the control points of the
15   corresponding sub-portion through the latch layer.

2.   The software system of claim 1, wherein each
latch object includes a locking mechanism for the
corresponding control point.

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3.   The software system of claim 1, wherein each
latch object is controlled by only one of the
hardware control objects.

25   4.   The software system of claim 1, wherein each
latch object includes a method which is adapted to
alter a value applied to the corresponding control
point according to a hardware implementation of the
corresponding control point.

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5.   The software system of claim 1, wherein each
hardware control object is adapted to handle

interdependencies among the corresponding control points.

6.   The software system of claim 1, further comprising an access layer having an access object for each of a set of groupings of the sub-portions, each access object coordinating accesses to the corresponding grouping of the sub-portions.

7.   The software system of claim 6, wherein each access object is adapted to handle interdependencies among the sub-portions of the corresponding grouping of the sub-portions.

8.   The software system of claim 6, wherein each hardware control object is controlled by only one of the access objects.

9.   The software system of claim 6, further comprising an orchestration layer having an orchestration object for each of a set of functional features of the hardware system, each orchestration object providing a common interface in the software system for accessing a corresponding grouping of the access objects which are associated with the corresponding functional feature.

10.   The software system of claim 9, wherein each orchestration object is adapted to handle interdependencies among the access objects of the corresponding grouping of the access objects.

11.  The software system of claim 9, wherein each access object is controlled by one or more of the orchestration objects.

5    12.  The software system of claim 9, wherein each orchestration object controls one or more of the other orchestration objects.